DV-1 Quick Reference Guide

Basic Operation for Version 6.0

WATCHGUARD DIGITAL IN-CAR VIDEO

DVD Disc Media

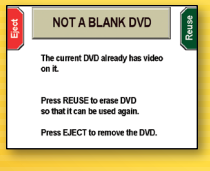
Insert DVD label side **UP**.

RECOMMENDED:
WatchGuard Evidence™, Sony®, or Maxell® brand DVD+RW discs
4X SPEED

RW DVD+ReWritable

Blank Disc Detected

Choose **YES** to format the disc to begin recording.



Used Disc Detected

Choose **Reuse** to confirm you wish to overwrite a used disc.
(Supervisor permission may be required)

Ejecting DVDs

Eject DVDs by holding down the **STOP/QUIT** key.

Do not use the Manual Eject Button to eject discs because the system may not be done writing to the disc.

Start Recording

Activate the emergency lights, wireless microphone, or press the **RECORD** key.

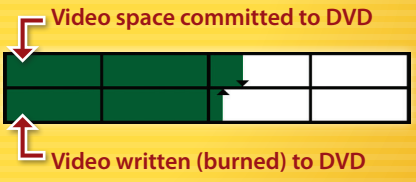
Stop Recording

Press the **STOP/QUIT** key. Each recorded EVENT creates a TITLE on the DVD.

Recording 1 stopped

To Eject the DVD, press and hold the STOP/QUIT key for 2 seconds.

Disc Usage Meter



DVD Status Icons

- No Disc
- Formatting
- Detecting
- Ejecting
- Valid Disc
- Overflow Discs
- Writing
- Invalid Disc
- Busy/Waiting
- Out of Temp

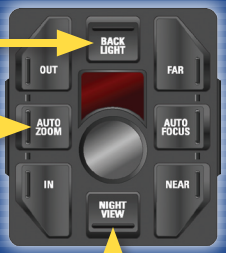
Camera Features

BACK LIGHT
- Brightens the overall picture
- Compensates for back-lighted conditions like dusk or dawn **(subject is darker than background)**

AUTO ZOOM
- Zooms to a preset level and holds zoom for a preset time
- To set: **MENU> SYSTEM SETTINGS> RECORDING CRITERIA> SET CAMERA AUTO-ZOOM**

NIGHT VIEW
Optimizes the camera settings for nighttime operation.
- AUTO FOCUS turned Off
- Focus point set to about 50′

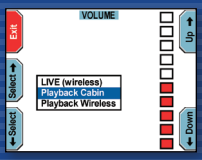
NIGHT VIEW is automatically activated in dark conditions!



If desired, the NIGHT VIEW Mode can be toggled on or off manually by pressing the NIGHT VIEW key on the camera. System reverts to AUTO on startup/reboot.

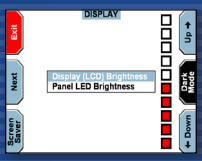
Volume Control

"**LIVE**" controls feedback level of the wireless microphone audio through the speakers. Playback levels adjust audio playback volume for the DV-1 only (not recorded levels).

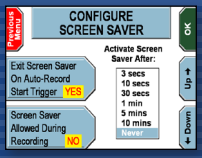


Adjust Display

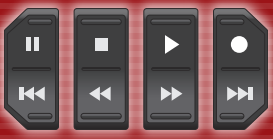
Dark Mode - turns OFF Screen & Indicators (press any key or record trigger to reverse)
Display LCD - adjusts screen brightness
Panel LED - adjusts indicator brightness



Screen Saver automatically turns off the LCD backlight after a set period of time. (from 3 secs to 10 mins).



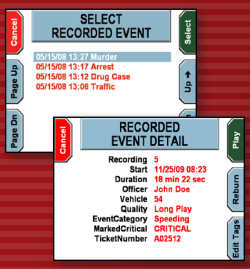
Video Playback



SKIP-	Backup 1 Title
REW	Backup 2 Minutes
FF	Forward 2 Minutes
SKIP+	Advance 1 Title

VIDEO REVIEW

To review recorded video, press **MENU > VIDEO REVIEW**

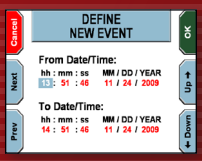


RECORD-AFTER-THE-FACT™

Captures events from the hard drive that have not been previously recorded to the DVD.
From the **MAIN MENU** select **VIDEO REVIEW**
Choose "**Define a New Event Start/Stop**"

Enter the **From Date/Time** that you would like the event to start.

Enter the **To Date/Time** that you would like the event to end.



Once you have selected your start and stop time, select **CREATE** to begin burning your event to the DVD.

Troubleshooting Guide

MEDIA ERRORS

Writing to the DVD

Some percentage of all DVDs have flaws or scratches that cause the system to stop writing to the disc. This is the most common error. Since the DV-1 uses both a Hard Drive and a DVD drive, no video will be lost as a result of these normal writing errors.

The system will not lose video data during a media error.

First Time WRITE ERRORS (#1 & #3)

ISSUE WRITING TO DVD (#1)

There has been a problem writing to this DVD.
No video has been lost.

When ready, press RESET to restart the system and retry writing to the DVD.

Reset

1. Wait until your recordable event has concluded (system continues recording to the hard drive during a write error)
2. Press the **STOP/QUIT** key to stop recording.
3. Press **RESET** to restart the system.
4. System will attempt to re-burn the video files.

Second Time WRITE ERRORS (#2 & #4)

DVD WRITE ERROR (#2)

The system cannot write any further to this DVD.
Press RESET to restart the system.

When the system restarts,
Step 1: Wait for the DVD to eject.
Step 2: Insert a new DVD.
The last chapter will be added to the next DVD. No video will be lost.

Reset

1. Press **RESET** to restart the system.
2. System will eject the disc after the restart.
3. Insert a new DVD.
4. If ERROR #2, Uncompleted chapters will be burned to the next DVD.
   If ERROR #4, Entire DVD will be rewritten to the next DVD.

Recognizing the DVD

DVD Write Error (#6)

DVD WRITE ERROR (#6)

The system cannot write any further to this DVD.

Step 1: Manually eject the DVD
Step 2: Press RESET to restart the system

The last chapter will be added to the next DVD. No video will be lost.

Reset

This error is most likely caused by a permanent defect in the media, the result of poorly manufactured or damaged/scratched DVDs. When this occurs, the DVD can no longer be used by the DV-1. It must be removed from the system and replaced with a new DVD. Video is still being recorded to the hard drive buffer in the system, so wait until the recording event is complete before pressing the **RESET** button on the screen.

1. Manually eject the DVD.
2. After pressing **RESET**, the system will reboot.
3. Once the system reboots, insert a new DVD.

"Reuse" the Current Disc

If the system has been successfully burning to a DVD, and then the DVD suddenly becomes unrecognized and you are prompted to "Reuse" the DVD; reboot the system to see if the disc will be recognized following a restart.

Eject | NOT A BLANK DVD | Reuse

The current DVD already has video on it.

Press REUSE to erase DVD so that it can be used again.

Press EJECT to remove the DVD.

1. If not recognized after reboot, press **EJECT** to eject the DVD.
2. Insert a new blank DVD.

The first disc should play all completed chapters. Any uncompleted chapters will be burned to the next DVD.

SOFTWARE MESSAGES

MOST SOFT ERRORS ARE FIXED BY REBOOTING

Soft Errors will occur occasionally when a software application or system process has stalled or crashed. Most soft errors occur when the DVD drive has been struggling to read or write to a disc for an extended period of time, or by power interruption as a result of a vehicle start.

SYSTEM RESET IS NEEDED (#40)

The system has detected an internal communication problem.

This may be caused by a bad DVD. Please manually eject the DVD.

Reboot the system. If it does not shut down, then detach and re-attach the power cable.

Soft errors may be identified as a communication problem or an error with an application name such as "**STATEMGR**." A Soft Error does not mean there is a hardware problem. Simply press **RESET** to restart the system.

Temperature Related Issues

The Temperature Screen is displayed during startup when the system is powered up while outside of its operating temperature range. Allow the system temperature to normalize, and it will automatically complete the boot up cycle. The "**IGNORE**" key will allow the system to boot up although it is outside of the recommended temperature range.

Ignore | SYSTEM TEMPERATURE

The ambient temperature is outside the system operating range.

The system will wait for the temperature to be in range before continuing.

Current temperature = - 4 °F
Minimum = 0 °F
Maximum = 158 °F

Excessive Temperature Boot Protection

In extreme temperature conditions, the system will not boot. The system fan will run until ambient temperature reaches operational range.

DVD Drive Temperature Range

The DVD Drive is taken "offline" when the temperature is outside the normal operating range, and "online" once the temperature normalizes. The system may request a reboot when ready.

CHECK INSTALLATION

Improper installation WILL cause system instability. If errors are common, confirm that the installer has connected the power and ground wires through the firewall directly to the vehicle battery (not merely grounding to the car frame or a terminal).

POWER ISSUES

Symptoms of a UPS (Battery Backup) Issue

- DV-1 resets after vehicle start
- **SET DATE AND TIME** screen appears after boot-up
  (indicates power was disconnected, or UPS voltage too low to maintain clock)
- Unexpected system reboots even when not burning to the DVD

Cancel | SET TIME AND DATE | OK

HH : MM : SS
14 : 30 : 00
MM / DD / YEAR
10 / 15 / 2005
Time Zone
CST6CDT
Central (US)

Next | Up | Down

Auto Power Up and Down Not Working

- Check fuse in the ignition (switched) power wire.
- Check **SYSTEM BEHAVIOR** settings in the **SUPERVISOR MENU**.

System Stalls During Boot-Up

1. Allow up to 5 minutes to complete the file recovery process.
2. If it has stalled at the startup progress bar, press the **OFF** key and attempt another restart.
3. If it stalls again, the hard drive may need a "**QUICK FORMAT**."

Unexpected System Reboots

The DV-1 may reboot unexpectedly if power to the system is interrupted or if certain fatal software errors occur. Fatal software errors can be the result of:

- Bad DVD causing the DVD drive to "time-out"
- Inadequate vehicle power
- Momentary glitch in electronic components

TOLL FREE SUPPORT

1-866-384-8567

WATCH GUARD
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